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April 1, 2004

Total Number of Pages
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From: ERIC L. MASCHOFF, Reg. No. 36,596

Comments: Please see attached.

Serial No.: 10/078,473

Docket No.: 15436.438.1

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FILED VIA FACSIMILE

PATENT APPLICATION

Docket: 15436.438.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Hoki Kwon

Serial No.:

10/078,473

Filed:

February 21, 2002

Confirmation No.:

4854

For:

CARBON DOPED GAASSB TUNNEL JUNCTION FOR THE APPLICATION OF LONG-WAVELENGTH VCSEL

Examiner:

Dung T. Nguyen

CERTIFICATE OF FACSIMILE TRANSMISSION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I hereby certify that this paper is being transmitted via facsimile at facsimile number (703) 872-9306 to the Patent and Trademark Office on the date shown below.

Dated this 1st of April, 2004.

Respectfully submitted,

E. Z. Wang

ERIC L. MASCHOFF
Attorney for Applicant
Registration No. 36,596
Customer No. 022913

Transmitted: Reply Under 37 C.F.R. ☐ 1.111
Information Disclosure Statement
Copy of Transmittal Letter dated February 5, 2004
Copy of Check No. 41078 in the amount of \$180.00
Copy of Returned Postcard Stamped as being received February 5, 2004

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PATENT APPLICATION
 Docket No: 15436.438.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hoki Kwon

Serial No.: 10/078,473

Conformation No.: 4854

Filed: February 21, 2002

For: CARBON DOPED GAASSB TUNNEL
 JUNCTION FOR THE APPLICATION
 OF LONG-WAVELENGTH VCSEL

Examiner: Dung T. Nguyen

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

TRANSMITTAL FOR RESUBMISSION OF REPLY UNDER 37 C.F.R. § 1.111 AND INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith is a Resubmission of a Reply under 37 C.F.R. §
 1.111 and Information Disclosure Statement. Please note that this is a resubmittal
 of a response that was timely filed on February 5, 2004, and from information
 received by the undersigned from the United States Patent and Trademark Office,
 not yet documented as having being filed.



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Also enclosed are copies of the initial Certificate of Deposit for the Reply and Information Disclosure Statement submitted on February 5, 2004, along with a copy of the original transmittal letter and check number 41078 in the amount of \$180.00, all of which were included in the submission of February 5, 2004.

A copy of the stamped returned postcard indicating the date of filing as February 5, 2004, is enclosed herewith.

X The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178.

X Any filing fees under 37 CFR 1.16 for the presentation of extra claims.

X Any patent application processing fees under 37 CFR 1.17.

Dated this 1st day of April, 2004.

Respectfully submitted,



ERIC L. MASCHOFF
Attorney for Applicant
Registration No. 36,596
Customer No. 022913

ELM:kjb
W:\11960\170\KJD000000609V001.doc

Atty Docket No.: H0002992

Inventor: Hoki Kwon

Application No.: 10/078,473

Filing Date: February 21, 2002

Title: CARBON DOPED GAASSB TUNNEL JUNCTION FOR THE APPLICATION OF LONG-WAVELENGTH (1.3-1.55UM) VCSEL

Documents Filed:

Reply under 37 CFR 1.111 (12 pages; page 12 in duplicate)

Amended Figure 1 (1 page)

Information Disclosure Statement (2 pages; in duplicate)

PTO Form SB/08 (11 pages)

Cited References (233)

Transmittal (1 page)

Fee Transmittal (1 page)

Check in the amount of \$180.00 (check #41078)



MLA Docket # 9910.0011.00

Via: PTO Daily Run

Sender's Initials: SKJ/MRK/kmh

Date: February 5, 2004

MCKENNA LONG & ALDRIDGE LLP ATTORNEYS AT LAW

BANK ACCOUNT: SUNTRUST BANK, ATLANTA

DATE: 02-03-04

PAYEE: COMMISSIONER OF PATENTS**

VENDOR #: 37437

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REF. #	GL #	INVOICE #	INVOICE DATE	DESCRIPTION	AMT. PAID
213286	133000000000000000	020504C	020504	09610.0011	180.00
TOTAL					180.00

VENDOR REFERENCE #:

9:28:52 AM 11/10/04 03:19 PM

PTO/SB/21 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<h1 style="text-align: center;">TRANSMITTAL FORM</h1> <p style="text-align: center;">(to be used for all correspondence after initial filing)</p>		Application Number	10/078,473
		Filing Date	February 21, 2002
		First Named Inventor	Hoki Kwon
		Art Unit	2828
		Examiner Name	Dung T. Nguyen
Total Number of Pages In This Submission	1	Attorney Docket Number	H0002992

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input checked="" type="checkbox"/> Drawing(s) (Fig. 1) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD; Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Cited References (233) PTO SB/08 (11 pages)
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	MCKENNA LONG & ALDRIDGE LLP Song K. Jung
Signature	<i>[Handwritten Signature]</i> Reg. No. 42,766
Date	February 5, 2004

DC:50260878.1

PTO/SB/17 (10-03)
Approved for use through 7/31/2008. OMB 0651-0032
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003, Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)		180.00	
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Complete If Known	
Application Number	10/078,473
Filing Date	February 21, 2002
First Named Inventor	Hoki Kwon
Examiner Name	Dung T. Nguyen
Art Unit	2828
Attorney Docket No.	H0002992

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)	
<input checked="" type="checkbox"/> Check	<input type="checkbox"/> Credit Card	<input type="checkbox"/> Money Order	<input type="checkbox"/> Other
<input type="checkbox"/> Deposit Account:			
Deposit Account Number	01-1125		
Deposit Account Name	Honeywell International Inc.		
The Director is authorized to: (check all that apply)			
<input type="checkbox"/> Charge fee(s) indicated below		<input checked="" type="checkbox"/> Credit any overpayments	
<input type="checkbox"/> Charge any additional fee(s) or any underpayment of fee(s)			
<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.			

1. BASIC FILING FEE		3. ADDITIONAL FEES	
Large Entity	Small Entity	Large Entity	Small Entity
Fee Code	Fee (\$)	Fee Code	Fee (\$)
1051	130	2051	68
1052	50	2052	28
1053	130	1053	130
1812	2,520	1812	2,520
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	59
1252	420	2252	210
1253	960	2253	475
1254	1,480	2254	740
1255	2,010	2255	1,005
1401	330	2401	185
1402	330	2402	185
1403	290	2403	145
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,330	2453	985
1501	1,330	2501	565
1502	480	2502	240
1503	840	2503	320
1460	130	1460	130
1807	50	1807	50
1808	180	1808	180
8021	40	8021	40
1809	770	2809	385
1810	770	2810	385
1801	770	2801	385
1802	900	1802	900

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	
Total Claims	Extra Claims
Independent Claims	Multiple Dependent
Multiple Dependent	
Large Entity	Small Entity
Fee Code	Fee (\$)
1202	18
1201	88
1203	290
1204	88
1205	18

SUBTOTAL (1) (\$)		SUBTOTAL (2) (\$)	
	0.00		0.00

SUBTOTAL (3) (\$)	
	180.00

SUBMITTED BY		(Complete if applicable)	
Name (Print/Type)	Song K. Jung	Registration No. (Attorney/Agent)	35,210
Signature	<i>[Signature]</i>	Telephone	(202) 496-7413
		Date	February 5, 2004

PC:50260879.1

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Docket No.: H0002992
Old Docket No.: V637-02992 US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Hoki Kwon

Confirmation No.: 4854

Application No.: 10/078,473

Group Art Unit: 2828

Filed: February 21, 2002

Examiner: Dung T. Nguyen

For: CARBON DOPED GAASSB TUNNEL
JUNCTION FOR THE APPLICATION OF
LONG-WAVELENGTH VCSEL

Customer No.: 000128

REPLY UNDER 37 CFR § 1.111

Mail Stop Non-Fee Amendment
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Office Action dated November 5, 2003, please amend the above-identified U.S. Patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper. This listing of claims will replace all prior versions, and listings, of claims in the application.

Amendments to the Drawings begin on page 7 of this paper and include an annotated sheet showing changes.

Remarks begin on page 8 of this paper.

An Appendix including amended drawing figures is attached following page 11 of this paper.